

TTCGGATCCTGGACCTTCCGGTTCTTACCCCCATTCTGGCCCTTGAGGCCAGGGAGCGAGGGCAGTG
TGGTTAATGGGGAGAGCCATGCATCCGGGACCACCACTCTCACAGACTGCCTGCGAAGATTACCAAGACC
AGAGCACTTAGGAAGCAGTGCAGATCAAGTGTAGCGGTTGCCATAGCTACCAAGAGTCCACAAAGCAG
CTCACCATGAAGAAGCTGCCATTGTGGCCTGTTCCATCTCAAACGATTGAACACTCAGCCAAACTTC
GGCGGAAGATCACCACATATGTGCTTTCCCCTGGAACGGACATGACGCCCTCATGGCCTCCAGCAA
AGAGAGCAGGATGAATGGGCAATACCAGCAGGCCCTGGACAGTCTCAACAATGACAACAAACTCCCTG
TTTGCTGTCGTTAACCATCAAGGGACCTGGAGAGTGGCCACTACACCAGCTCATCCGGCAGC
ACAAAGACCAGTGGTTCAAGTGTGATGACGCCATTATCACCAAGGCCAGCATCAAAGATGTACTGGACAG
TGAAGGGTACTACTCTCTATCACAAACAGTCCTGGATTACGAGTAGCTCCTGCCTGCTGGCCAGAGA
AAGAGAGAGA (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

TTCGGATCCTGGACCTCCGGTTCTTCTACCCATTCTGCCCTTGAGCCCAGGGAGC
GAGGGCAGTGTGGTTAATGGGAGAGCCATGCATCGGGACCACACTCTCACAGACTGC
CTGCGAAG [ATTTACCAAGACCAGAGCACTTAGGAAGCAGTGCCTAGAAGATCAAGTGTAGCGGT
TGCCATAGC] **TACCAAGAGTCCACAACAGCAGCTCACCATGAAGAAGCTGCCATGTGGCC**
TGTTCCATCTCAAACGATTGAACACTCAGCCAAACTTCGGCGGAAGATCACACATAT
GTGTCTTTCCCTGGAACTGGACA [TGACGCCCTCATGGCCTCCAG] CAAAGAGAGCAGG
ATGAATGGGCAATACCAGCAGCCCCCTGGACAGTCTCAACAATGACAACAAATACTCCCTG
TTTGTGCTGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCAGCTTCATCCGG
CAGCACAAAGACCAGTGGTCAAGTGTGATGACGCCATTATCACCAAGGCCAGCATCAA
GATGTACTGGACAGTGAAGGGTACTACTCTTCTATCACAAACAGTTCCCTGGATTACGAGT
AGCTCCTGCCTGCTGGCAGAGAAAGAGAGA

**Gene Sequence
Structure *** 190 bp **Sequence Deleted** 325 bp

**Size of EST
contig: 634 bp**

FIGURE 2A

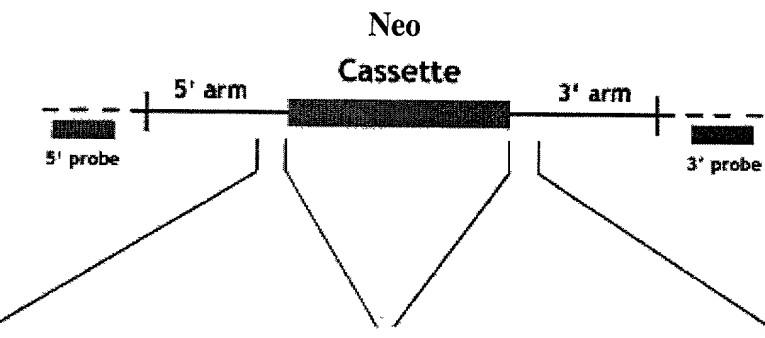
Targeting Vector* (genomic sequence)

Construct Number: 2869

Arm Length:

5': 0.4 kb

3': 3.5 kb



— Targeting Vector
- - - Endogenous Locus

* Not drawn to scale

5' >AGATGACACCTTAACTACTG
GTGAACTTGAGTGATAAAAATAAT
CTGTTCCCTTCTTCCATGTCT
CATGTCTTTACTTTCCCCTTC
CATGTTTATTTTAAATAAAAAC
ACGTTTTAATGCCTGTAGAT
TTACCAAGACCAGAGCACTTAGGAA
GCAGTGCCAAGATCAAGTGTAGCG
GTTGCCATATC<3' (SEQ ID
NO: 2)

5' >TGACGCCCTTCATGGCCTCCA
GGTAGAAAGGGTTGGTGCCTCTGT
GTC TGAGTGGGAAGGCAAGTTGTC
TAGTGGGTGCTTACCCAGTGCCAG
CCTTTAGACATGGAATGACAGCT
ATCCAGGCCTCACCGCCACCCAG
AACTTACCTAACGCTTACTGTGGGC
TACCCATTGTACTCTTAACATCC
CTCATCATTTA<3' (SEQ ID
NO: 3)

FIGURE 2B